

### Requirements for Label Application:

1. Generate an eligible Statement of Energy Performance (SEP), including the Data Checklist.
2. Obtain a stamp and signature on the SEP from a certified Licensed Professional (i.e. Professional Engineer or Registered Architect).
3. Complete the Data Checklist and obtain a signature from the Licensed Professional who verified your SEP.
4. Complete the ENERGY STAR Recognition form.
5. Download and sign a copy of the Letter of Agreement.
6. Mail the following documents to EPA for review:
  - Signed Letter of Agreement
  - Stamped and signed SEP
  - Signed Data Checklist by the Licensed Professional who verified your SEP



# STATEMENT OF ENERGY PERFORMANCE

## 06-906 - Carpenters/Painters/Laborers

Building ID: 1713707

For 12-month Period Ending: June 30, 2012<sup>1</sup>

Date SEP becomes ineligible: October 28, 2012

Date SEP Generated: July 10, 2012

**Facility**

06-906 - Carpenters/Painters/Laborers  
Nevada National Security Site  
Mercury, NV 89023

**Facility Owner**

Department of Energy  
232 Energy Way  
North Las Vegas, NV 89030  
702-295-1598

**Primary Contact for this Facility**

(b) (6)  
316 E. Atlas Circle, M/S: NNSS 302  
North Las Vegas, NV 89030  
702-295-(b) (6)  
(b) (6) @nv.doe.gov

Year Built: 1993

Gross Floor Area (ft<sup>2</sup>): 16,623Energy Performance Rating<sup>2</sup> (1-100) 77**Site Energy Use Summary<sup>3</sup>**

|                                   |         |
|-----------------------------------|---------|
| Electricity - Grid Purchase(kBtu) | 273,745 |
| Natural Gas - (kBtu) <sup>4</sup> | 0       |
| Total Energy (kBtu)               | 273,745 |

**Energy Intensity<sup>4</sup>**

|                                   |    |
|-----------------------------------|----|
| Site (kBtu/ft <sup>2</sup> /yr)   | 16 |
| Source (kBtu/ft <sup>2</sup> /yr) | 55 |

**Emissions (based on site energy use)**

|   |    |
|---|----|
| Greenhouse Gas Emissions (MtCO <sub>2</sub> e/year) | 46 |
|---|----|

**Electric Distribution Utility**

Nevada Power Co [NV Energy]

**National Median Comparison**

|  |                               |
|--|-------------------------------|
| National Median Site EUI                     | 26                            |
| National Median Source EUI                   | 87                            |
| % Difference from National Median Source EUI | -37%                          |
| Building Type                                | Warehouse<br>(Unrefrigerated) |

Registered Architect Stamp

Signature: \_\_\_\_\_

Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate and in accordance with the Licensed Professional Guide.

**Meets Industry Standards<sup>5</sup> for Indoor Environmental Conditions:**

|   |     |
|---|-----|
| Ventilation for Acceptable Indoor Air Quality | Yes |
| Acceptable Thermal Environmental Conditions   | Yes |
| Adequate Illumination                         | Yes |

**Registered Architect**

License Number: (b) (6)  
State: NV  
(b) (6)  
P.O. Box 98521  
Las Vegas, NV 89193  
702-295-(b) (6)

**Notes:**

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and ESNA Lighting Handbook for lighting quality.

# **ENERGY STAR ELIGIBILITY ALERT COMMENTS**

**FOR YOUR RECORDS ONLY. DO NOT SUBMIT TO EPA.**

Please keep the ENERGY STAR Eligibility Comments for your own records; do not submit them to EPA. Only the Statement of Energy Performance (SEP), Data Checklist and Letter of Agreement need to be submitted to EPA when applying for the ENERGY STAR.

When generating the SEP, Portfolio Manager requested you provide comments for the following ENERGY STAR eligibility alerts. The comments you provided are below. A copy of your comments has also been submitted to EPA.

## **Facility May Contain Multiple Facilities**

This facility represents "one" not multiple facilities.

# ENERGY STAR® Data Checklist for Commercial Buildings

In order for a building to qualify for the ENERGY STAR, a Professional Engineer (PE) or a Registered Architect (RA) must validate the accuracy of the data underlying the building's energy performance rating. This checklist is designed to provide an at-a-glance summary of a property's physical and operating characteristics, as well as its total energy consumption, to assist the PE or RA in double-checking the information that the building owner or operator has entered into Portfolio Manager.

**Please complete and sign this checklist and include it with the stamped, signed Statement of Energy Performance.**

NOTE: You must check each box to indicate that each value is correct, OR include a note.

| CRITERION  | VALUE AS ENTERED IN PORTFOLIO MANAGER            | VERIFICATION QUESTIONS   | NOTES | <input checked="" type="checkbox"/> |
|--|--|--|-------|-------------------------------------|
| <b>Building Name</b>                                 | 06-906 - Carpenters/Painters/Laborers            | Is this the official building name to be displayed in the ENERGY STAR Registry of Labeled Buildings?   |       | <input type="checkbox"/>            |
| <b>Type</b>  | Warehouse (Unrefrigerated)                       | Is this an accurate description of the space in question?  |       | <input type="checkbox"/>            |
| <b>Location</b>                                      | Nevada National Security Site, Mercury, NV 89023 | Is this address accurate and complete? Correct weather normalization requires an accurate zip code.  |       | <input type="checkbox"/>            |
| <b>Single Structure</b>                              | Single Facility                                  | Does this SEP represent a single structure? SEPs cannot be submitted for multiple-building campuses (with the exception of a hospital, k-12 school, hotel and senior care facility) nor can they be submitted as representing only a portion of a building.  |       | <input type="checkbox"/>            |
| Warehouse (Warehouse (Unrefrigerated))               |  |  |       |                                     |
| CRITERION  | VALUE AS ENTERED IN PORTFOLIO MANAGER            | VERIFICATION QUESTIONS   | NOTES | <input checked="" type="checkbox"/> |
| <b>Gross Floor Area</b>                              | 16,623 Sq. Ft.                                   | Is this the total gross floor area as measured between the principal exterior surfaces of the enclosing fixed walls and including all supporting functions? The total gross floor area should include offices, lobbies, rest rooms, equipment storage areas, mechanical rooms, employee break rooms, cafeterias, elevators, stairwells, all space occupied by refrigeration/freezer units, and all areas that are entirely refrigerated. Existing atriums or areas with high ceilings should only include the base floor area that they occupy. The total gross floor area should not include outside loading bays or docks. |       | <input type="checkbox"/>            |
| <b>Workers on Main Shift</b>                         | (b) (4)  | Does this number represent the average number of workers that are present during the primary shift (that is, the shift with the most workers)? Note: this is not the total number of staff employed at the property. For example, if there are three daily 8 hour shifts of 100 workers each, the Workers on Main Shift value is 100.  |       | <input type="checkbox"/>            |
| <b>Weekly operating hours</b>                        | 0000 Hours                                       | Is this the total number of hours per week that this warehouse space is in operation, excluding hours when the facility is occupied by maintenance, security, or other support personnel? Note: the average warehouse space operates 60 hours per week.  |       | <input type="checkbox"/>            |
| <b>Percent Cooled</b>                                | 50 %   | Is this the percentage of the total floor space within the facility that is served by mechanical cooling equipment?  |       | <input type="checkbox"/>            |
| <b>Percent Heated</b>                                | 50 %   | Is this the percentage of the total floor space within the facility that is served by mechanical heating equipment?  |       | <input type="checkbox"/>            |
| <b>Number of walk-in refrigeration/freezer units</b> | 0  | Does this count include all large walk-in refrigeration or freezer units at the warehouse?   |       | <input type="checkbox"/>            |
| <b>Distribution Center</b>                           | No(Optional)                                     | Is this building considered a distribution center?   |       | <input type="checkbox"/>            |

# ENERGY STAR® Data Checklist for Commercial Buildings

## Energy Consumption

**Power Generation Plant or Distribution Utility:** Nevada Power Co [NV Energy]

| Fuel Type: Electricity   |            |  |
|--|------------|--|
| <b>Meter:</b> (b) (4) (kWh (thousand Watt-hours))<br><b>Space(s):</b> Entire Facility<br><b>Generation Method:</b> Grid Purchase |            |  |
| Start Date   | End Date   | Energy Use (kWh (thousand Watt-hours)) |
| 06/01/2012   | 06/30/2012 | 4,390.00                               |
| 05/01/2012   | 05/31/2012 | 3,540.00                               |
| 04/01/2012   | 04/30/2012 | 6,210.00                               |
| 03/01/2012   | 03/31/2012 | 8,150.00                               |
| 02/01/2012   | 02/29/2012 | 13,300.00                              |
| 01/01/2012   | 01/31/2012 | 10,470.00                              |
| 12/01/2011   | 12/31/2011 | 11,220.00                              |
| 11/01/2011   | 11/30/2011 | 4,780.00                               |
| 10/01/2011   | 10/31/2011 | 3,810.00                               |
| 09/01/2011   | 09/30/2011 | 4,290.00                               |
| 08/01/2011   | 08/31/2011 | 6,300.00                               |
| 07/01/2011   | 07/31/2011 | 3,770.00                               |
| <b>(b) (4) Consumption (kWh (thousand Watt-hours))</b>   |            | <b>80,230.00</b>                       |
| <b>(b) (4) Consumption (kBtu (thousand Btu))</b>   |            | <b>273,744.76</b>                      |
| <b>Total Electricity (Grid Purchase) Consumption (kBtu (thousand Btu))</b>   |            | <b>273,744.76</b>                      |
| Is this the total Electricity (Grid Purchase) consumption at this building including all Electricity meters?                     |            | <input type="checkbox"/>               |

| Additional Fuels   |                          |
|--|--------------------------|
| Do the fuel consumption totals shown above represent the total energy use of this building?<br>Please confirm there are no additional fuels (district energy, generator fuel oil) used in this facility. | <input type="checkbox"/> |

| On-Site Solar and Wind Energy   |                          |
|---|--------------------------|
| Do the fuel consumption totals shown above include all on-site solar and/or wind power located at your facility? Please confirm that no on-site solar or wind installations have been omitted from this list. All on-site systems must be reported. | <input type="checkbox"/> |

## Certifying Professional

(When applying for the ENERGY STAR, the Certifying Professional must be the same PE or RA that signed and stamped the SEP.)

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature is required when applying for the ENERGY STAR.

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## Facility

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## Facility Owner

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## Primary Contact for this Facility

(b) (6)  
316 E. Atlas Circle, M/S: NNSS 302  
North Las Vegas, NV 89030  
702-295-(b) (6)  
(b) (6) @nv.doe.gov

## General Information

| 06-906 - Carpenters/Painters/Laborers                  |               |
|--|---------------|
| Gross Floor Area Excluding Parking: (ft <sup>2</sup> ) | 16,623        |
| Year Built   | 1993          |
| For 12-month Evaluation Period Ending Date:            | June 30, 2012 |

## Facility Space Use Summary

| Warehouse                                     |                            |
|---|----------------------------|
| Space Type                                    | Warehouse (Unrefrigerated) |
| Gross Floor Area (ft <sup>2</sup> )           | 16,623                     |
| Workers on Main Shift                         | (b) (4)                    |
| Weekly operating hours                        |                            |
| Percent Cooled                                | 50                         |
| Percent Heated                                | 50                         |
| Number of walk-in refrigeration/freezer units | 0                          |
| Distribution Center °                         | N                          |

## Energy Performance Comparison

| Performance Metrics                       | Evaluation Periods                  |                                      | Comparisons  |        |                 |
|---|-------------------------------------|--------------------------------------|--------------|--------|-----------------|
|   | Current<br>(Ending Date 06/30/2012) | Baseline<br>(Ending Date 12/31/2008) | Rating of 75 | Target | National Median |
| Energy Performance Rating                 | 77                                  | 1                                    | 75           | N/A    | 50              |
| Energy Intensity                          |                                     |                                      |              |        |                 |
| Site (kBtu/ft <sup>2</sup> )              | 16                                  | 26986                                | 17           | N/A    | 26              |
| Source (kBtu/ft <sup>2</sup> )            | 55                                  | 90134                                | 58           | N/A    | 87              |
| Energy Cost                               |                                     |                                      |              |        |                 |
| \$/year                                   | N/A                                 | N/A                                  | N/A          | N/A    | N/A             |
| \$/ft <sup>2</sup> /year                  | N/A                                 | N/A                                  | N/A          | N/A    | N/A             |
| Greenhouse Gas Emissions                  |                                     |                                      |              |        |                 |
| MtCO <sub>2</sub> e/year                  | 46                                  | 75,029                               | 48           | N/A    | 73              |
| kgCO <sub>2</sub> e/ft <sup>2</sup> /year | 3                                   | 4,514                                | 3            | N/A    | 4               |

More than 50% of your building is defined as Warehouse (Unrefrigerated). Please note that your rating accounts for all of the spaces listed. The National Median column presents energy performance data your building would have if your building had a median rating of 50.

### Notes:

o - This attribute is optional.

d - A default value has been supplied by Portfolio Manager.